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## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: San Ming R. Hu Examiner #: 78222 Date: 4/22/03  
 Art Unit: 1617 Phone Number: 301-51072 Serial Number: 09/992510  
 Mail Box and Bldg/Room Location: SB Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Tricyclic RANTES receptor ligands

Inventors (please provide full names): Geeta Saxena, Christopher Tudan  
Ahmed Mergout, Hassan Salami

Earliest Priority Filing Date: 06/14/2001

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

please search claim 1, the disease is  
~~autoimmune~~ disease such as rheumatoid  
 autoimmune arthritis, inflammation.  
 multiple sclerosis.

The elected compound is compound of  
 formula (X). If not found, please  
 search other compounds too.

Thanks

San

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 Searcher Location: \_\_\_\_\_ AA Sequence (#) \_\_\_\_\_ Dialog \_\_\_\_\_  
 Date Searcher Picked Up: \_\_\_\_\_ Structure (#) \_\_\_\_\_ Questel/Orbit \_\_\_\_\_  
 Date Completed: 4/22/03 Bibliographic \_\_\_\_\_ Dr. Link \_\_\_\_\_  
 Searcher Prep & Review Time: \_\_\_\_\_ Litigation \_\_\_\_\_ Lexis/Nexis \_\_\_\_\_  
 Clerical Prep Time: \_\_\_\_\_ Fulltext \_\_\_\_\_ Sequence Systems \_\_\_\_\_  
 Online Time: \_\_\_\_\_ Patent Family \_\_\_\_\_ WWW/Internet \_\_\_\_\_  
 Other \_\_\_\_\_ Other (specify) \_\_\_\_\_

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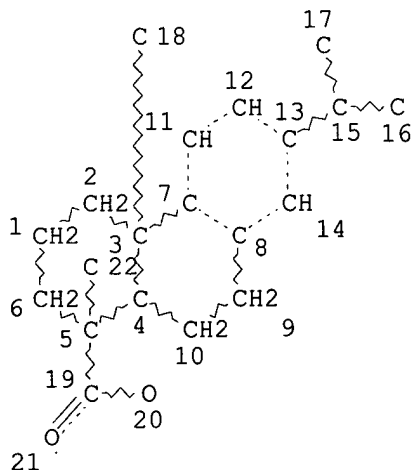
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FILE COVERS 1907 - 22 Apr 2003 VOL 138 ISS 17  
 FILE LAST UPDATED: 21 Apr 2003 (20030421/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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NODE ATTRIBUTES:  
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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STEREO ATTRIBUTES: NONE

L9 214 SEA FILE=REGISTRY SSS FUL L7  
 L13 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND (AUTOIMMUN? OR  
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 L14 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND CHEMOKIN?  
 L15 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR L14

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L15 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:977646 HCAPLUS

DOCUMENT NUMBER: 138:49921

TITLE: Tricyclic terpenes of the family of abietic acid as  
RANTES receptor ligandsINVENTOR(S): Saxena, Geeta; Tudan, Christopher R.; Merzouk, Ahmed;  
Salari, Hassan

PATENT ASSIGNEE(S): Chemokine Therapeutics Corporation, Can.

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102365	A1	20021227	WO 2002-CA840	20020606
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-881559	A 20010614
			US 2001-992550	A 20011113

OTHER SOURCE(S): MARPAT 138:49921

AB A method of treating a **chemokine**- or **chemokine** receptor-mediated disease using a tricyclic terpene compd. that binds to one or more RANTES receptors is described. For example, the ability of tricyclic terpenes to competitively inhibit binding of the **chemokine** ligand RANTES to its receptors (CCR-1, -3, -4, and -5) on THP-1 type cells was demonstrated. Thus neoabietic acid (CTCM 189), sandaraco-pimaric acid, and ammonium pimarate at 4 .mu.g/mL inhibited RANTES binding by 68%, 36%, and 48%, resp. Neoabietic acid showed an almost complete inhibition of RANTES-induced [Ca2+]i mobilization in THP-1 cells at the concn. of 5 .mu.M. In accordance with this aspect of the invention, the neoabietic acid or corresponding salts may be used for the treatment of a wide range of **inflammatory** diseases such as gout, **arthritis**, **osteoarthritis**, rheumatoid **arthritis**, reperfusion injuries, **inflammatory** bowel diseases, and ARDS.

IT 1740-19-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tricyclic terpenes based on abietic acid as **chemokine** receptor ligands for treatment of **chemokine**-mediated disease)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:252418 HCAPLUS

DOCUMENT NUMBER: 136:257244

TITLE: Naturally occurring compounds and their derivatives as

INVENTOR(S): cyclooxygenase 2 and/or 5-lipoxygenase inhibitors  
 Russell, Brett A.; Miller, John D.; Cashman, John R.;  
 Weerawarna, Sirimevan A.  
 PATENT ASSIGNEE(S): C-P Technology Limited Partnership, USA  
 SOURCE: U.S., 38 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6365634	B1	20020402	US 1998-210343	19981211
PRIORITY APPLN. INFO.:			US 1997-69557P	P 19971212
			US 1998-75152P	P 19980219
			US 1998-95597P	P 19980805

AB This invention discloses methods for treating **inflammation** by inhibiting the prodn. of pro-**inflammatory** metabolites via the cyclooxygenase and/or lipoxygenase pathways, comprising administering 4-cumylphenol or salts or solvates thereof. Examples are provided on isolation and identification of natural **antiinflammatory** compds. from peat bog. Several compds., including dehydroabietic Me ester, 3-methoxyaniline, and 4-cumylphenol were thus identified and tested for activity against COX I, COX II, 5-LO and 15-LO enzymes and cytotoxicity.

IT **1235-74-1P**, Dehydroabietic acid methyl ester  
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (isolation of compds. from peat bog with cyclooxygenase and/or lipoxygenase inhibitory activity)

IT **1740-19-8**, Dehydroabietic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (isolation of compds. from peat bog with cyclooxygenase and/or lipoxygenase inhibitory activity)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:159030 HCAPLUS  
 DOCUMENT NUMBER: 136:318987  
 TITLE: Inhibition of Tumor-Promoting Effects by Poricoic Acids G and H and Other Lanostane-Type Triterpenes and Cytotoxic Activity of Poricoic Acids A and G from *Poria cocos*  
 AUTHOR(S): Ukiya, Motohiko; Akihisa, Toshihiro; Tokuda, Harukuni; Hirano, Masaya; Oshikubo, Manabu; Nobukuni, Yoshitoshi; Kimura, Yumiko; Tai, Takaaki; Kondo, Seizo; Nishino, Hoyoku  
 CORPORATE SOURCE: College of Science and Technology, Nihon University, Chiyoda-ku, Tokyo, 101-8308, Japan  
 SOURCE: Journal of Natural Products (2002), 65(4), 462-465  
 CODEN: JNPRDF; ISSN: 0163-3864  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The structures of two novel 3,4-seco-lanostane-type triterpenes isolated from the **sclerotium** of *Poria cocos* were established to be 16.alpha.-hydroxy-3,4-seco-lanosta-4(28),8,24-triene-3,21-dioic acid (1; poricoic acid G) and 16.alpha.-hydroxy-3,4-seco-24-methyl-lanosta-4(28),8,24(241)-triene-3,21-dioic acid (2; poricoic acid H) on the basis of spectroscopic methods. These two, and eight other known compds. isolated from the **sclerotium**, poricoic acid B (3), poricoic acid

A (4), tumulosic acid (5), dehydrotumulosic acid (6), 3-epidehydrotumulosic acid (7), polyporenic acid C (8), 25-hydroxy-3-epidehydrotumulosic acid (9), and dehydroabietic acid Me ester (10), showed potent inhibitory effects on Epstein-Barr virus early antigen (EBV-EA) activation induced by the tumor promoter 12-O-tetradecanoylphorbol-13-acetate (TPA). Evaluation of the cytotoxicity of compds. 1 and 4 against human cancer cell lines revealed that 1 was significantly cytotoxic to leukemia HL-60 cells [GI50 (concn. that yields 50% growth) value 39.3 nM], although it showed only moderate cytotoxicity to the other cells. Compd. 4 exhibited moderate cytotoxicity to all of the cancer cell lines tested.

IT 1235-74-1, Dehydroabietic acid methyl ester  
 RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (inhibition of tumor-promoting effects by poricoic acids G and H and other lanostane-type triterpenes and cytotoxic activity of poricoic acids A and G from *Poria cocos*)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:442648 HCAPLUS

DOCUMENT NUMBER: 132:47500

TITLE: Diterpene constituents of *Juniperus polycarpus* and their antimicrobial and anti-inflammatory activities

AUTHOR(S): El-Sayed, Aly M.

CORPORATE SOURCE: Department of Pharmacognosy, Faculty of Pharmacy, Cairo University, Cairo, Egypt

SOURCE: Zagazig Journal of Pharmaceutical Sciences (1998), 7(1), 80-86

CODEN: ZJPSEV; ISSN: 1110-5089

PUBLISHER: University of Zagazig, Faculty of Pharmacy

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Activity-directed study of *Juniperus polycarpus* led to the isolation of active antimicrobial viz., hinokiol, sandaracopimaric acid, 4-epiabietic acid, and other minor terpenes in addn. to .omega.-lauryllactone. The antiinflammatory activity of hinokiol was also demonstrated using carrageenan-induced inflammation in rats. The structures of the isolated terpenes were detd. by 1HNMR, 13CNMR and 2DNMR, APT, DEPT, PND spectra.

IT 5155-70-4P, 4-Epidehydroabietic acid

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(isolation, anti-inflammatory, and antibacterial activity of diterpene constituents of *Juniperus polycarpus*)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:39189 HCAPLUS

DOCUMENT NUMBER: 118:39189

TITLE: Preparation of potential antiinflammatory agents from dehydroabietic acid

AUTHOR(S): Li, Wen Shyong; McChesney, James D.

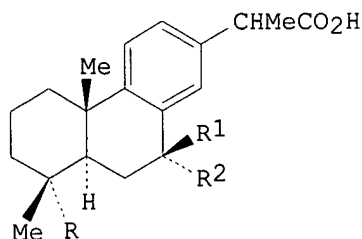
CORPORATE SOURCE: Dep. Agric. Chem., Natl. Pingtung Inst. Agric., Taiwan

SOURCE: Journal of Pharmaceutical Sciences (1992), 81(7), 646-51

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: English  
GI



I

- AB Title compds. I (R = CO<sub>2</sub>H, CO<sub>2</sub>Me, R<sub>1</sub> = H, OH, R<sub>2</sub> = H, R<sub>1</sub>R<sub>2</sub> = O; R = CH<sub>2</sub>OH, CH<sub>2</sub>OAc, R<sub>1</sub>, R<sub>2</sub> = H) were prepd. from dehydroabiatic acid isolated from resin. I were devoid of fungicidal and bactericidal activity. Only I (R = CO<sub>2</sub>Me, R<sub>1</sub>R<sub>2</sub> = H<sub>2</sub>, O) had weak **antiinflammatory** activity.
- IT **1740-19-8P**  
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(isolation and esterification of)
- IT **144969-76-6P**  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and **antiinflammatory** activity of)
- IT **1235-74-1P 144969-67-5P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. and oxidn. of)
- IT **144969-68-6P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of)
- IT **144969-71-1P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn., hydrolysis, and **antiinflammatory** activity of)

L15 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:658034 HCAPLUS

DOCUMENT NUMBER: 117:258034

TITLE: Studies with tissue cultures of the Chinese herbal plant *Tripterygium wilfordii*. Isolation of metabolites of interest in rheumatoid **arthritis**, immunosuppression, and male contraceptive activity

AUTHOR(S): Kutney, James P.; Hewitt, Gary M.; Lee, Gin; Piotrowska, Krystyna; Roberts, Malcolm; Rettig, Steven J.

CORPORATE SOURCE: Dep. Chem., Univ. British Columbia, Vancouver, BC, V6T 1Y6, Can.

SOURCE: Canadian Journal of Chemistry (1992), 70(5), 1455-80  
CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A detailed study of metabolites produced by the plant cell culture line of *T. wilfordii*, a Chinese herbal plant, is presented. Eighteen compds. within the diterpene and triterpene families were isolated and fully characterized. Of these, 5 are novel compds., and their structures were detd. by a combination of spectral anal., chem. correlation and single crystal X-ray diffraction. The interest of these compds. in the treatment of rheumatoid **arthritis**, skin allergies, and for male

contraception is noted.

IT 1740-19-8, Dehydroabiatic acid  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified);  
 BIOL (Biological study); OCCU (Occurrence)  
 (of Tripterygium wilfordii)

L15 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:458099 HCAPLUS  
 DOCUMENT NUMBER: 111:58099  
 TITLE: Investigation and utilization of chemical constituents  
 from plants. Part I. Chemical and biological studies  
 on the roots of (A) Clausena lansium Skeels and (B)  
 Neolitsea parvigemma Kan. & Sas. Part II.  
 Utilization of common natural products as synthons:  
 preparation of potential anti-inflammatory  
 agents from dehydroabiatic acid  
 AUTHOR(S): Li, Wen Shyong  
 CORPORATE SOURCE: Univ. Mississippi, University, MS, USA  
 SOURCE: (1987) 180 pp. Avail.: Univ. Microfilms Int., Order  
 No. DA8804283  
 From: Diss. Abstr. Int. B 1988, 48(12), Pt. 1, 3545  
 DOCUMENT TYPE: Dissertation  
 LANGUAGE: English

AB Unavailable

IT 1740-19-8, Dehydroabiatic acid  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthon for potential antiinflammatory agents)

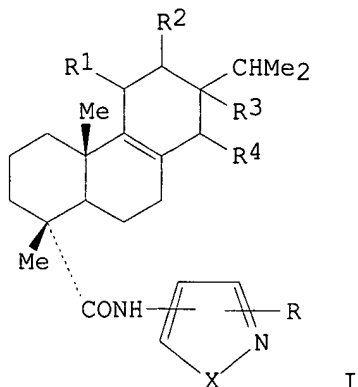
L15 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:231929 HCAPLUS  
 DOCUMENT NUMBER: 110:231929  
 TITLE: Preparation of pyrazolyl- and thiazolylabiatic acid  
 amides as anticholesteremics  
 INVENTOR(S): Yoshikuni, Yoshiaki; Chokai, Shoichi; Fujita, Ikuo;  
 Ozaki, Takayuki  
 PATENT ASSIGNEE(S): Nippon Shinyaku Co., Ltd., Japan  
 SOURCE: Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3704404	A1	19870820	DE 1987-3704404	19870212
DE 3704404	C2	19910307		
JP 62190169	A2	19870820	JP 1986-31585	19860215
JP 05074588	B4	19931018		
JP 62190177	A2	19870820	JP 1986-31586	19860215
JP 06006580	B4	19940126		
GB 2186575	A1	19870819	GB 1987-3529	19870216
GB 2186575	B2	19891108		
FR 2598413	A1	19871113	FR 1987-1924	19870216
FR 2598413	B1	19900323		
US 4755523	A	19880705	US 1987-15287	19870217
PRIORITY APPLN. INFO.:			JP 1986-31585	19860215
			JP 1986-31586	19860215

GI





AB The title compds. [I; R = H, alkyl, Ph, HO<sub>2</sub>CCH<sub>2</sub>; R<sub>1</sub>-R<sub>4</sub> = H; R<sub>1</sub>R<sub>2</sub>, R<sub>3</sub>R<sub>4</sub> = bond; X = R<sub>5</sub>N, S; R<sub>5</sub> = H, alkyl (un)substituted Ph] were prepd. as hypocholesterolemic, useful in the treatment of **arteriosclerosis**. .DELTA.8-Dehydroabietic acid in refluxing C<sub>6</sub>H<sub>6</sub> was treated with SOCl<sub>2</sub> for 2 h. The resulting acid chloride was amidated with 1-phenyl-5-aminopyrazole in dioxane contg. Et<sub>3</sub>N to give 70% 1-phenyl-5-(.DELTA.8-dehydroabietoylamino)pyrazole. I reduced serum cholesterol when administered orally to rats and mice.

IT **1740-19-8**, Dehydroabietic acid  
 RL: PROC (Process)  
 (conversion of, to acid chloride)

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 E283 THROUGH E289 ASSIGNED

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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1 1740-19-8/BI  
 (1740-19-8/RN)  
 1 1235-74-1/BI  
 (1235-74-1/RN)  
 1 144969-67-5/BI  
 (144969-67-5/RN)  
 1 144969-68-6/BI  
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 1 144969-71-1/BI  
 (144969-71-1/RN)  
 1 144969-76-6/BI  
 (144969-76-6/RN)  
 1 5155-70-4/BI  
 (5155-70-4/RN)

L16 7 (1740-19-8/BI OR 1235-74-1/BI OR 144969-67-5/BI OR 144969-68-6/B  
 I OR 144969-71-1/BI OR 144969-76-6/BI OR 5155-70-4/BI)

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L16 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2003 ACS

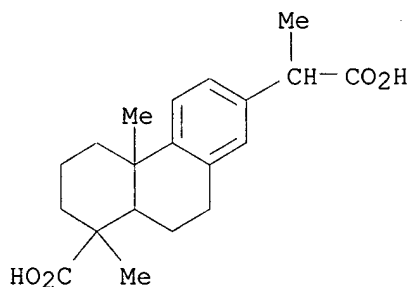
RN **144969-76-6** REGISTRYCN 2-Phenanthreneacetic acid, 8-carboxy-4b,5,6,7,8,8a,9,10-octahydro-  
.alpha.,4b,8-trimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H26 O4

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 118:39189

L16 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2003 ACS

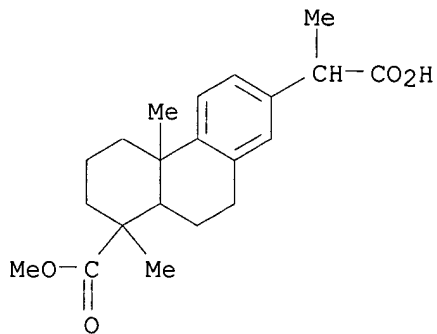
RN **144969-71-1** REGISTRYCN 2-Phenanthreneacetic acid, 4b,5,6,7,8,8a,9,10-octahydro-8-  
(methoxycarbonyl)-.alpha.,4b,8-trimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H28 O4

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)

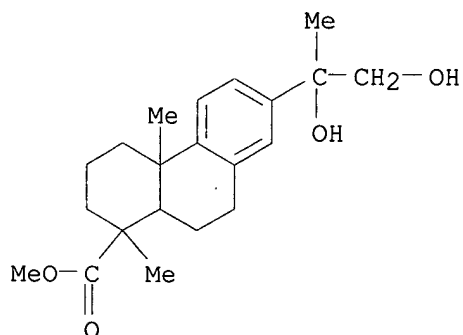


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 118:39189

L16 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2003 ACS  
RN **144969-68-6** REGISTRY  
CN 1-Phenanthrenecarboxylic acid, 7-(1,2-dihydroxy-1-methylethyl)-  
1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-, methyl ester (9CI) (CA  
INDEX NAME)  
FS 3D CONCORD  
MF C21 H30 O4  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
(\*File contains numerically searchable property data)



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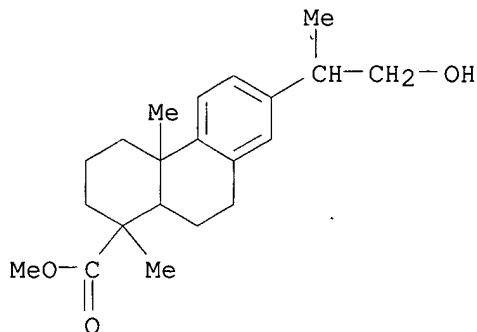
2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 123:138444

REFERENCE 2: 118:39189

L16 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2003 ACS  
RN **144969-67-5** REGISTRY  
CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-7-(2-hydroxy-  
1-methylethyl)-1,4a-dimethyl-, methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD  
 MF C21 H30 O3  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 118:39189

L16 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2003 ACS

RN 5155-70-4 REGISTRY

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1S,4aS,10aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1S-(1.alpha.,4a.alpha.,10a.beta.)]-

CN Podocarpa-8,11,13-trien-16-oic acid, 13-isopropyl- (7CI, 8CI)

OTHER NAMES:

CN 4-epi-Dehydroabietic acid

CN 4-Epiabietic acid, dehydro-

CN 4-Epidehydroabietic acid

CN Callitrisic acid

CN Dehydro-4-epiabietic acid

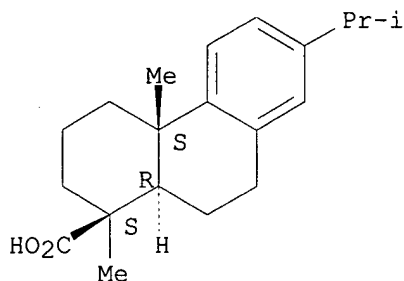
FS STEREOSEARCH

DR 18045-62-0

MF C20 H28 O2

LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CHEMINFORMRX, GMELIN\*, NAPRALERT, SPECINFO, TOXCENTER  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

32 REFERENCES IN FILE CA (1962 TO DATE)  
 32 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:361665

REFERENCE 2: 134:219686

REFERENCE 3: 134:27513

REFERENCE 4: 132:47500

REFERENCE 5: 131:198770

REFERENCE 6: 125:246547

REFERENCE 7: 123:138736

REFERENCE 8: 123:112443

REFERENCE 9: 122:85370

REFERENCE 10: 121:303285

L16 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2003 ACS

RN 1740-19-8 REGISTRY

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R,4aS,10aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-

CN Abietic acid, dehydro- (6CI)

CN Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (7CI, 8CI)

OTHER NAMES:

CN (-)-Dehydroabietic acid

CN Abieta-8,11,13-trien-18-oic acid

CN Dehydroabietic acid

FS STEREOSEARCH

DR 135577-73-0, 2501-27-1

MF C20 H28 O2

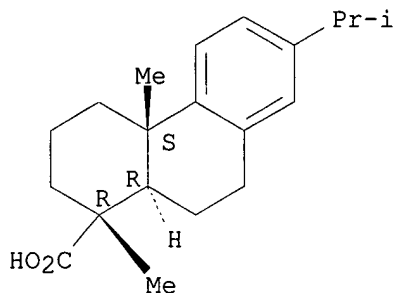
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DIPPR\*, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1182 REFERENCES IN FILE CA (1962 TO DATE)

46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1184 REFERENCES IN FILE CAPLUS (1962 TO DATE)

34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:256775

REFERENCE 2: 138:242607

REFERENCE 3: 138:234762

REFERENCE 4: 138:233155

REFERENCE 5: 138:223133

REFERENCE 6: 138:221722

REFERENCE 7: 138:210040

REFERENCE 8: 138:210039

REFERENCE 9: 138:175367

REFERENCE 10: 138:172856

L16 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2003 ACS

RN 1235-74-1 REGISTRY

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, (1R,4aS,10aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-

CN Abietic acid, dehydro-, methyl ester (6CI)

CN Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-, methyl ester (7CI, 8CI)

OTHER NAMES:

CN Dehydroabietic acid methyl ester

CN Methyl 8,11,13-Abietatrien-18-oate

CN Methyl dehydroabietate

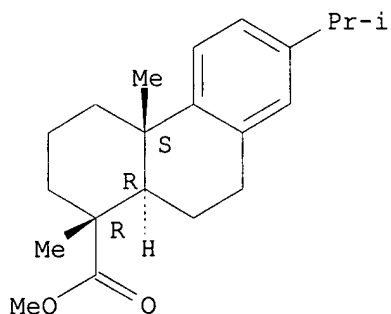
FS STEREOSEARCH

DR 83159-14-2

MF C21 H30 O2

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA,  
CAOLD, CAPLUS, CASREACT, CHEMLIST, IFICDB, IFIPAT, IFIUDB, IPA,  
NAPRALERT, SPECINFO, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

258 REFERENCES IN FILE CA (1962 TO DATE)  
258 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
20 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE	1:	138:256775
REFERENCE	2:	138:86346
REFERENCE	3:	137:374837
REFERENCE	4:	137:283327
REFERENCE	5:	137:80637
REFERENCE	6:	137:41021
REFERENCE	7:	136:344713
REFERENCE	8:	136:318987
REFERENCE	9:	136:296407
REFERENCE	10:	136:257244

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FILE COVERS 1907 - 22 Apr 2003 VOL 138 ISS 17  
 FILE LAST UPDATED: 21 Apr 2003 (20030421/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L7          STR
L9          214 SEA FILE=REGISTRY SSS FUL L7
L13         8 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND (AUTOIMMUN? OR
              ?ARTHRIT? OR ?RHEMAT? OR ?INFLAM? OR ?SCLERO?)
L14         1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND CHEMOKIN?
L15         8 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR L14
L17         4 SEA FILE=HCAPLUS ABB=ON PLU=ON (L9(L)(?MEDIC? OR ?PHARM? OR
              ?THERAP? OR ?DRUG?)) NOT L15
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L17 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:686119 HCAPLUS  
 DOCUMENT NUMBER: 133:267892  
 TITLE: Sterilizable, skin-compatible medical adhesive tapes  
 INVENTOR(S): Gebauer, Manfred; Huefftlein, Karlheinz  
 PATENT ASSIGNEE(S): RMH Polymers G.m.b.H. und Co. K.-G., Germany  
 SOURCE: Ger. Offen., 10 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19913719	A1	20000928	DE 1999-19913719	19990326
PRIORITY APPLN. INFO.:			DE 1999-19913719	19990326

AB Adhesive tapes for medial application are based on a carrier tape which has applied on both sides a pressure-sensitive adhesive. The carrier is a terpolymer of C4-12-alkyl (meth)acrylate 65-75, vinylcarboxylic acid 10-20, and vinyl arom. monomer 5-15%. The adhesive is based on 50-80% one acrylic polymer (A) and 20-50% another acrylic polymer (B). Part A is



comprised of C4-12-alkyl acrylate 73-85, vinylcarboxylic acid 5-15, methacrylate 4-8, di- or triacrylate 0.2-0.5, and hydrogenated balsam or tall-oil resin 2-4%. Part B is comprised of C4-12-alkyl acrylate 75-85, vinylcarboxylic acid 10-20, methacrylate 2-6, and hydrogenated balsam or tall-oil resin 0.5-2%. The adhesive tapes are sol. in aq. alk. media.

IT 1740-19-8, Dehydroabiatic acid

RL: TEM (Technical or engineered material use); USES (Uses)  
(in adhesives for sterilizable **medical** adhesive tapes)

L17 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:210572 HCAPLUS  
DOCUMENT NUMBER: 126:297751  
TITLE: High-performance liquid chromatographic determination of dehydroabiatic and abiatic acids in traditional Chinese medications  
AUTHOR(S): Lee, B. L.; Koh, D.; Ong, H. Y.; Ong, C. N.  
CORPORATE SOURCE: Department of Community, Occupational and Family Medicine, National University of Singapore, National University Hospital, Lower Kent Ridge Road, Singapore, Singapore  
SOURCE: Journal of Chromatography, A (1997), 763(1-2), 221-226  
CODEN: JCRAEY; ISSN: 0021-9673  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB In Asia, there is still a high usage of traditional Chinese medicament by the general population. Some patients with contact dermatitis to these medicaments have been found to be sensitive to colophony on patch testing. Dehydroabiatic acid (DHAA) and abiatic acid (AA) are the main components of colophony and believed to be the agents responsible for skin sensitization. This paper describes a reliable high-performance liq.-chromatog. method for detg. these two resin acids in ointment samples. The samples were either pretreated with di-Et ether or treated with acetonitrile directly by ultrasonication for 30 min. One vol. of this sample was added to an equal vol. of water and purified by solid-phase extn. The mobile phase used was methanol-water-phosphoric acid (87:13:0.02, vol./vol.) and the flow-rate was 1 mL/min. DHAA and AA were detected at 4.3 and 6.3 min with UV detection at wavelength 200 and 239 nm, resp. However, fluorimetric detection with an excitation wavelength of 225 nm and emission wavelength of 285 nm, provided more selective detn. of DHAA. The detection limits for DHAA and AA were 1 ng. Anal. recovery generally exceeded 90. We analyzed nine types of commonly used topical Chinese medicaments and two types of Western medical ointments in Singapore. The results showed that most of these medicaments contain colophony below 5 ppm (.mu.gg-1). Only one Chinese medicament contained >70 ppm of both allergens and one of the Western medical ointments contained 0.2 of DHAA and 2.2 of AA.

IT 1740-19-8, Dehydroabiatic acid

RL: ANT (Analyte); ANST (Analytical study)  
(detn. of dehydroabiatic and abiatic acids in traditional Chinese **medications** by HPLC)

L17 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:540202 HCAPLUS  
DOCUMENT NUMBER: 111:140202  
TITLE: Skin preparations containing mixed esters of fatty acids and modified resin acids with polyhydric alcohols  
INVENTOR(S): Uehara, Keiichi; Kawabata, Akio; Iwasa, Satoru; Inoue, Yoshikazu; Tsutsumi, Yuji; Ichikawa, Hideyuki  
PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan; Harima Chemicals, Inc.  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63183513	A2	19880728	JP 1987-13761	19870123
JP 07098730	B4	19951025		

PRIORITY APPLN. INFO.: JP 1987-13761 19870123

AB Topical skin compns. comprise esters of disproportionated and/or hydrogenated rosin and fatty acids with polyhydric alcs. Purified hydrogenated rosin (418 g) and stearic acid (190 g) were treated with 73.89 glycerol under N at 230.degree. for 3 h and at 260.degree. for 10 h to give dihydrogenated rosin monostearoyl glyceride. The latter compds. has good affinity to the skin and after 1 mo storage at 50.degree. no organoleptic changes were obsd. A lipstick contained ceresin B 10, carnauba wax 1, candelilla wax 4, dihydrogenated rosin monostearoyl glyceride 10, liq. paraffin 15, castor oil 29.70, di-2-heptylundecanoic acid glycerin 20, mica titanium 10, red iron oxide 0.05, Red No. 202 0.1, and Yellow No. 4 0.15%.

IT 122829-89-4

RL: BIOL (Biological study)  
 (cosmetic and **pharmaceutical** skin prepn. contg.)

L17 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:400230 HCAPLUS

DOCUMENT NUMBER: 101:230

TITLE: Chemical and pharmacological studies of Salvia tomentosa

AUTHOR(S): Ulubelen, Ayhan; Miski, Mahmut; Johansson, Candan

CORPORATE SOURCE: Eczacilik Fak., IU, Istanbul, Turk.

SOURCE: Doga Bilim Dergisi, Seri C: Tip (1984), 8(1), 109-15  
 CODEN: DSTIDB; ISSN: 0254-2331

DOCUMENT TYPE: Journal

LANGUAGE: Turkish

AB Extn. of S. tomentosa with petroleum ether, benzene, CCl4, and alc. followed by polyamide and silica gel chromatog., permitted the isolation of several **pharmacol.** active compds. Antiochic acid [77091-10-2] was cytotoxic to L cells in culture; 6-hydroxyluteolin-7-glucoside [54300-65-1] inhibited DNA formation in these cells. Cirsimaritin [6601-62-3] and dehydroabiatic acid [1740-19-8] were bactericidal to may Gram-pos. and -neg. bacteria.

IT 1740-19-8

RL: BIOL (Biological study)  
 (from Salvia tomentosa, **pharmacol.** of)

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=> select hit rn l17 1-4  
 E290 THROUGH E291 ASSIGNED

=> fil reg

FILE 'REGISTRY' ENTERED AT 17:49:55 ON 22 APR 2003

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STRUCTURE FILE UPDATES: 21 APR 2003 HIGHEST RN 503584-60-9

DICTIONARY FILE UPDATES: 21 APR 2003 HIGHEST RN 503584-60-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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=&gt; s e290-e291

1 1740-19-8/BI

(1740-19-8/RN)

1 122829-89-4/BI

(122829-89-4/RN)

L19 2 (1740-19-8/BI OR 122829-89-4/BI)

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YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:end

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L19 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN 122829-89-4 REGISTRY

CN 1-Phenanthrenecarboxylic acid, tetradecahydro-1,4a-dimethyl-7-(1-  
methylethyl)-, monoester with 1,2,3-propanetriol mono[1,2,3,4,4a,9,10,10a-  
octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenecarboxylate] (9CI)  
(CA INDEX NAME)

FS STEREOSEARCH

MF C43 H66 O5

CI IDS

SR CA

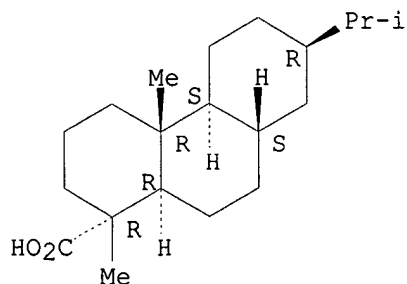
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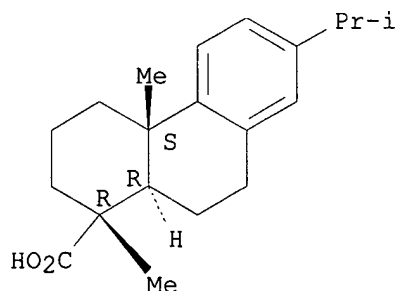
Absolute stereochemistry.



CM 2

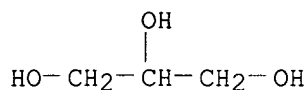
CRN 1740-19-8  
CMF C20 H28 O2

Absolute stereochemistry. Rotation (+).



CM 3

CRN 56-81-5  
CMF C3 H8 O3



1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 111:140202

L19 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS

RN 1740-19-8 REGISTRY

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R,4aS,10aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, [1R-(1.alpha.,4a.beta.,10a.alpha.)]-

CN Abietic acid, dehydro- (6CI)

CN Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (7CI, 8CI)

OTHER NAMES:

CN (-)-Dehydroabietic acid

CN Abieta-8,11,13-trien-18-oic acid

CN Dehydroabietic acid

FS STEREOSEARCH

DR 135577-73-0, 2501-27-1

MF C20 H28 O2

CI COM

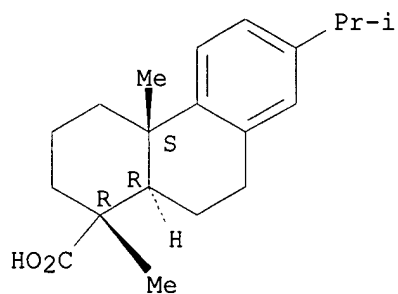
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, DIPPR\*, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1182 REFERENCES IN FILE CA (1962 TO DATE)  
 46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1184 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:256775  
 REFERENCE 2: 138:242607  
 REFERENCE 3: 138:234762  
 REFERENCE 4: 138:233155  
 REFERENCE 5: 138:223133  
 REFERENCE 6: 138:221722  
 REFERENCE 7: 138:210040  
 REFERENCE 8: 138:210039  
 REFERENCE 9: 138:175367  
 REFERENCE 10: 138:172856